

10/645,386

[001] ~~SPEED MEASURING SYSTEM WITH DISTANCE SENSOR FOR~~ ⇐  
~~MEASURING ROTATIONAL SPEED OF A BODY~~ ⇐

[035] In Fig. 2 a diagrammatic curve of the signal amplitudes (ordinate A) of the speed sensor 4 via the air gap (abscissa LS) between stationary speed sensor 4 and rotating measuring body 1 is shown. With A<sub>max</sub> and A<sub>min</sub>, respectively, are designated the maximum and minimum speed signal amplitudes which can result from rotation of the measuring body 1. According to the invention, an upper release threshold S<sub>o</sub> (shown in dotted line) and a lower release threshold S<sub>u</sub> (shown in dotted line) are coordinated with the speed sensor 4. Both release thresholds S<sub>o</sub> and S<sub>u</sub> are a function of the measured air gap LS. If the actual measured speed signal amplitude is greater than the ~~[[lower]]~~ upper release threshold S<sub>o</sub> or smaller than the lower release threshold S<sub>u</sub>, the speed sensor 4 delivers a reliable speed signal unequal to "zero". ⇐

6/27/06 - 11:40 AM